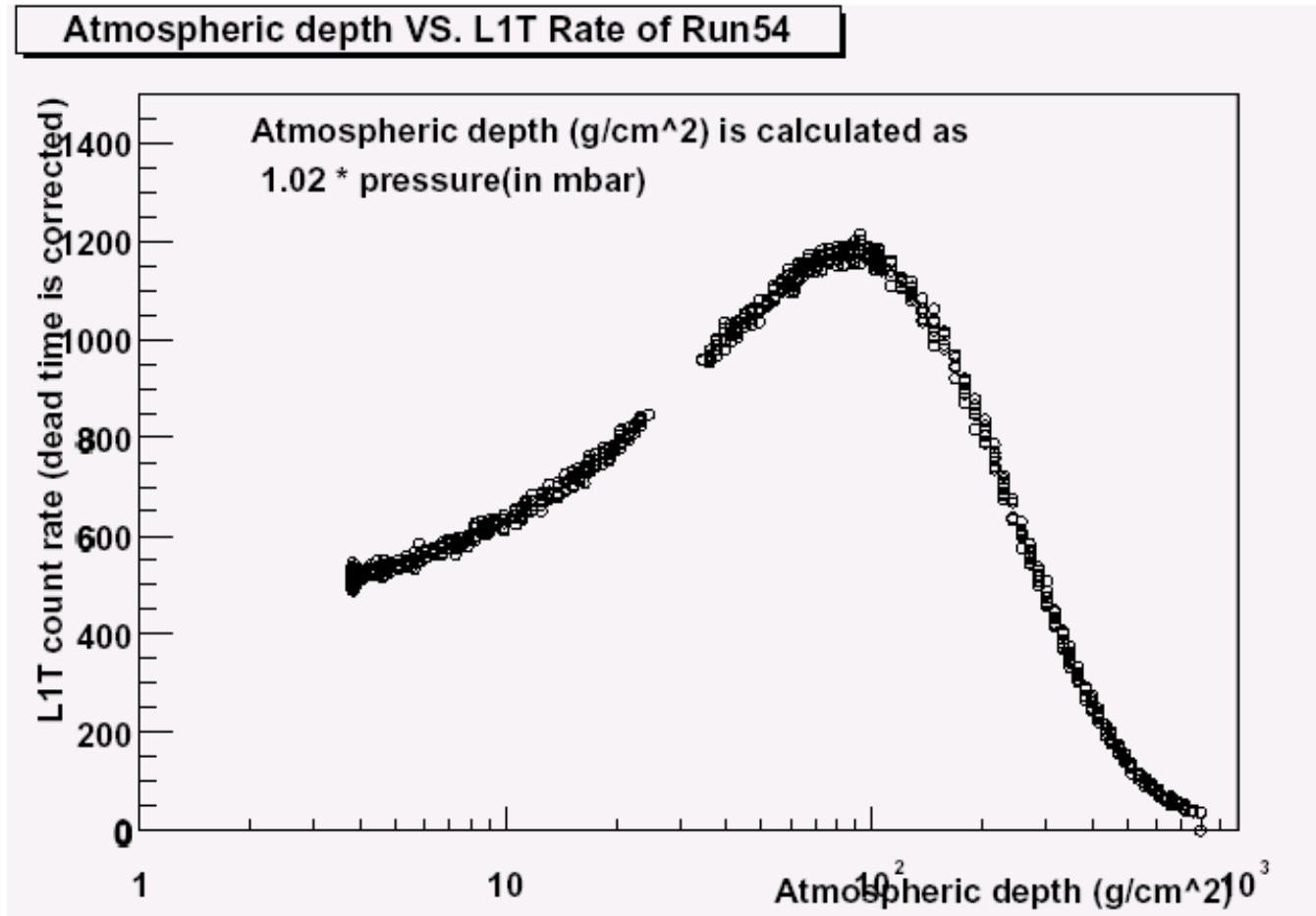


First Look at BFEM Data

Aug. 20, 2001 IDT Meeting

B. Giebels, T. Mizuno, H. Mizushima, and T. Kamae

L1T rate Vs Atmospheric depth

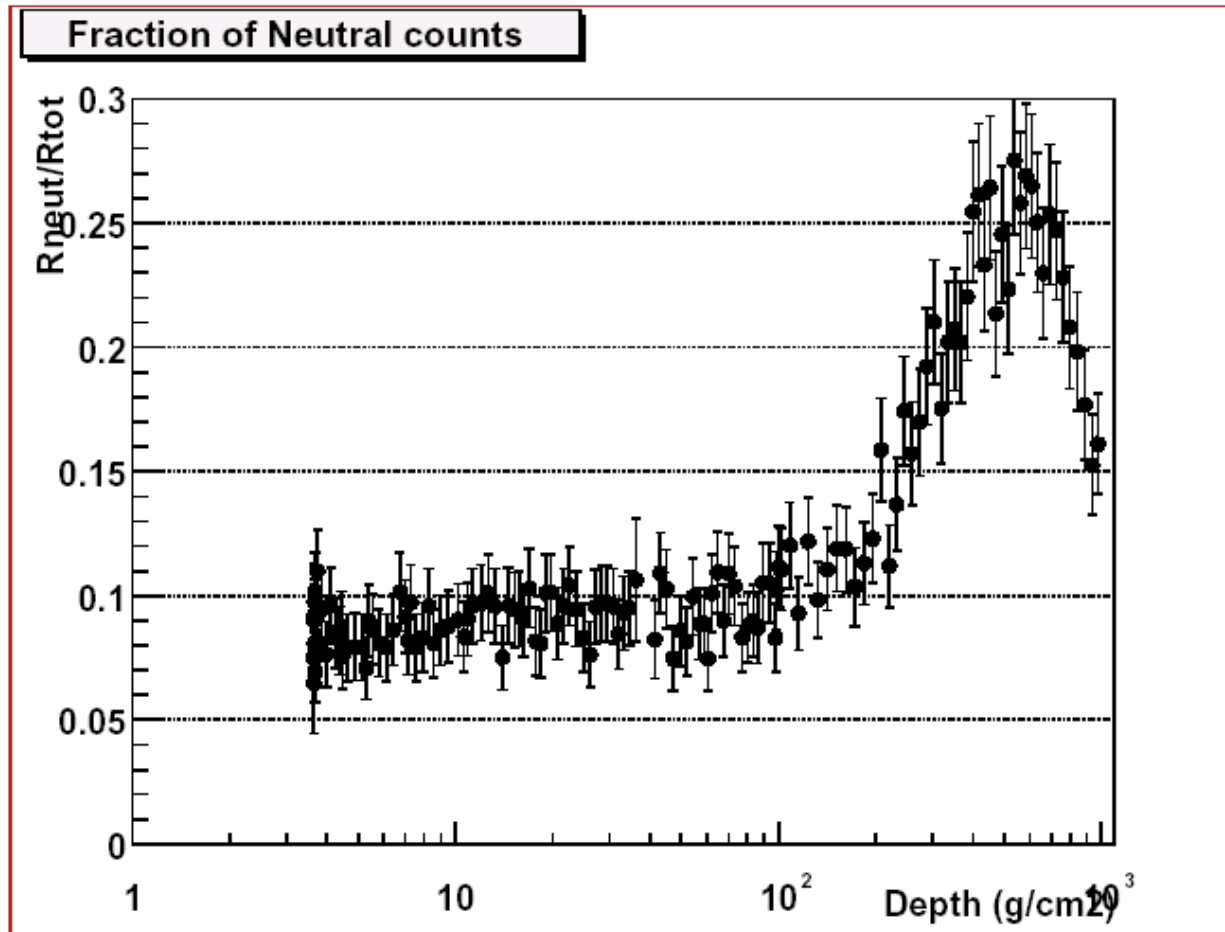


First Look at BFEM Data

Aug. 20, 2001 IDT Meeting

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L1T “neutral ratio” Vs Atmospheric depth

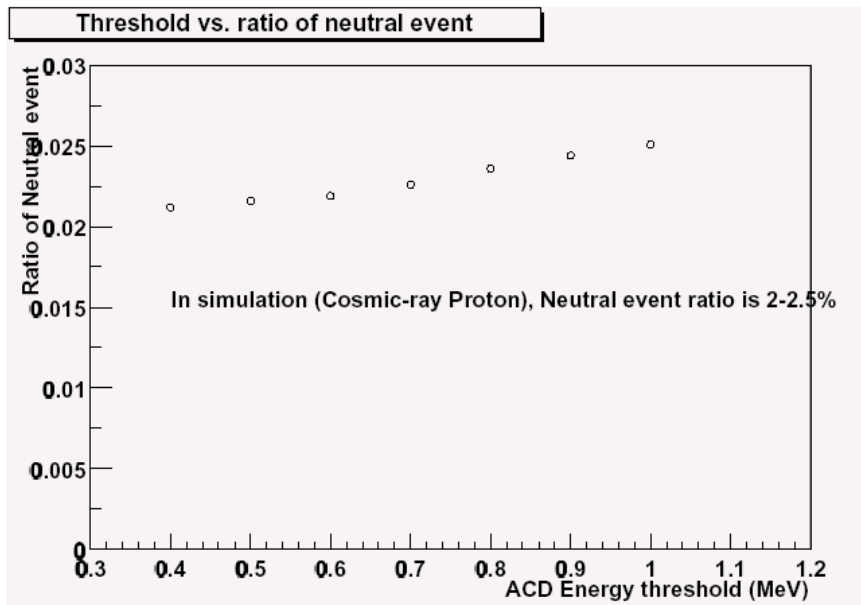


First Look at BFEM Data

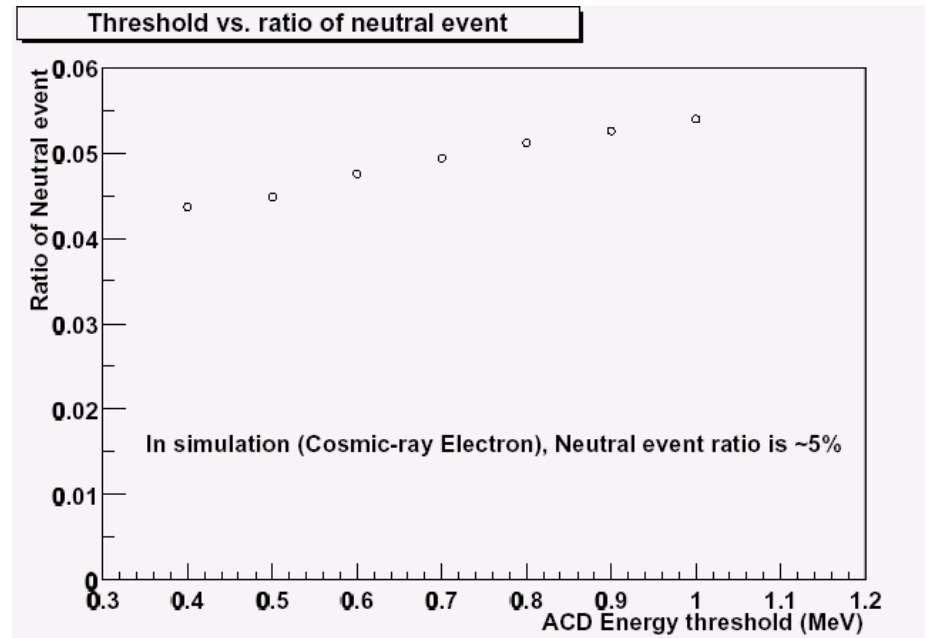
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**G4 Simulation: Neutral fraction for CR protons and electrons
as functions of ACD threshold.**



For protons 2-2.5%



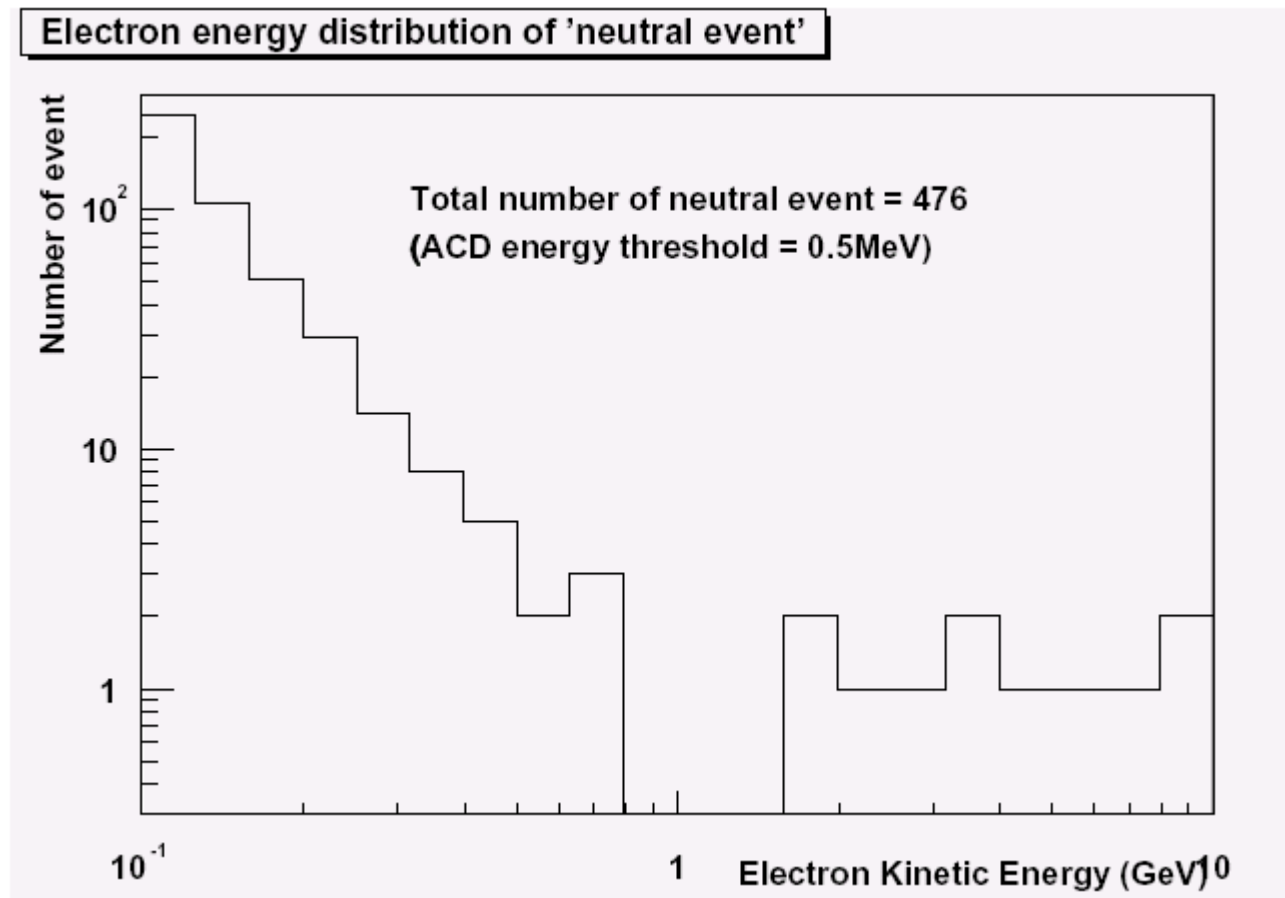
For electrons 4.5-5.5%

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Number of “neutrals” of electron origin VS Electron energy



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First Feedback:

- Present BFEM G4 predicts L1T to be 234Hz(+2%) by protons and 27Hz(+2%) by electrons.
(In the level flight. No bad channels removed from L1T)
- The measured total rate is about 500Hz (+2%) for the level flight.
- Present G4 predicts the “neutral” rate to be 2.5-3%.
 (“neutral” means no ACD hit above the pedestal peaks, 250ch)
- The measured fraction is ~8%.
- Missing components in G4 include: p/ e with $E < 100\text{MeV}$, He, gamma, positron, and muon.

DO list:

- Include p/e with $E(\text{kinetic}) < 100\text{MeV}$
- Implement gamma, positron, and muon.